

Figure 2

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	Sequence ID #	
NRG1_alpha	1	TGTSHLVKAEKEKTCVNGGECFMVKDLSNPSRYLCKCQPGFTGARTENVPMKV
NRG1_beta	2	TGTSHLVKAEKEKTCVNGGECFMVKDLSNPSRYLCKCPNEFTGDRQCQNYVMASF
NRG2_alpha	3	SWSGHARKCNETAKSYCVNGGVCYYIEGINQLS—CKCPNGFFGQRCLEKPLRL
NRG2_beta	4	SWSGHARKCNETAKSYCVNGGVCYYIEGINQLS—CKCPVGYTGDRCCQCFAMVNF
NRG3	5	ERSEHFKPCRDKDLAYCLNDGECFVIETLTGSHK-HCRCKEGYQGVRCDDQFLPKTD
NRG4	6	MPTDHEEPCGSPSHKSFCLNGGLCYVIPTIP-SP-FCRCVENYTGARCEEVFLPGS
EGF	7	SVRNSDSECLSHDGYCLHDGVCMYEALDKYA—CNCVGYIGERCQYRDLKWW
TGF_alpha	8	AWSHFNDCPDSTHTQCFH-GTCRFLVQEDKPA—CVCHSGWGARCEHADLLAV
Betacellulin	9	KRKGHFSRCPKQYKHYCIK-GRCRFVVAEQTPS—CVCDEGYIGARCERVDLFYL
Amphiregulin	10	RNRKKKNPCNAEFQNFICIH-GECKYIEHLEAVT—CKCQQEYFGERCGEKSMTKTH
HB-EGF	11	GLGKKRDPCLRKYKDFCIH-GECKYVKELRAPs—CICHPGYHGERCHGLSLPVE
Epiregulin	12	VAQVSITKCSSDMNGYCLH-GQCIYLVDMSONY—CRCEVGYTGVRCEHFFLTVH
Epigen	13	VALKFHPCLDHNHNSYCIN-GACAFHHELKQAI—CRCFTGYTGQRCEHLTLTSY
		* :*: * *
		* * * *

Figure 3

	Sequence ID #	4/8
HUMAN		
NRG1_alpha	14	
NRG1_beta	15	
Translated genomic locus	73, 128	
		<p> <----- Exon A ----->----- Exon B -----> TGTSHLVKCAEKEKTFVNGGECFWKDLSPNSRYLCKCPQFTGARCCTENVPKVKQ... TGTSHLVKCAEKEKTFVNGGECFWKDLSPNSRYLCKCPNEFTGDRCCQNYVMASFY... TGTSHLVKCAEKEKTFVNGGECFWKDLSPNSRYLCK* </p>
NRG2_alpha	16	
NRG2_beta	17	
Translated genomic locus	74, 129	
		<p> SWSGHARKCNETAKSYCVNGGVCYVIEGINOLS...CKCPNGFFGQRCLEKPLRLY... SWSGHARKCNETAKSYCVNGGVCYVIEGINOLS...CKCPVGYTGDRCCQFAMVNFY... SWSGHARKCNETAKSYCVNGGVCYVIEGINOLS...CK* </p>
NRG3	18	
Translated genomic locus	75, 130	
		<p> ERSEHFKPCRDKDLAYCLNDGECFVETLTGSH-KKCRCKEGYQGVRCQ-FLPKTD... ERSEHFKPCRDKDLAYCLNDGECFVETLTGSH-KHCR* </p>
NRG4	19	
Translated genomic locus	76, 131	
		<p> MPTDHEEPCGFSHKSFCLNGGLCYVITIPSPF...CKGVENYTGARCEEVFLPGSS... MPTDHEEPCGFSHKSFCLNGGLCYVITIPSPF...CK* </p>
EGF	20	
Translated genomic locus	77, 132	
		<p> SVRNSDSEPLSHDGYCLHDGVCVMYIEALDKYA---CKGVWGYIGERCQYRDLKWE... SVRNSDSEPLSHDGYCLHDGVCVMYIEALDKYA---CK* </p>
TGF_alpha	21	
Translated genomic locus	78, 133	
		<p> AVVSHFNDCPDSHTQCFH-GTCRELVOEDKPA---GVCHSGYVGARCEHADLLAVV... AVVSHFNDCPDSHTQCFH-GTCRELVOEDKPA---GV* </p>
Betacellulin	22	
Translated genomic locus	79, 134	
		<p> KRKGHSRCPKQYKHVCK-KRCRFVVAEQTPS---GVCDGYIGARCEVDFLFLR... KRKGHSRCPKQYKHVCK-KRCRFVVAEQTPS---GV* </p>

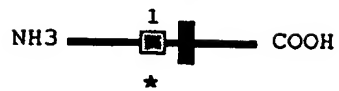
Figure 4

Amphiregulin Translated genomic locus	NRKKKNPCNAEFONFCIH-GECKYIEHLEAVT-CKCQOEYFGERCGEKSMKTHS.... NRKKKNPCNAEFONFCIH-GECKYIEHLEAVT-CK*	23 80, 135
HB-EGF Translated genomic locus	GLGKKRDPCLRKVKDFCIH-GECKYVKELRAPST-CHPHGYHGERCHGLSLPVEN.... GLGKKRDPCLRKVKDFCIH-GECKYVKELRAPST-CM*	24 81, 136
Epiregulin Translated genomic locus	VAQVSITKCSSDMNGYCLH-GGCLYLVDMSONY-RCCEVGYTGVRCEHFFLTVHQ.... VAQVSITKCSSDMNGYCLH-GGCLYLVDMSONY-CR*	25 82, 137
Epigen(Mouse) Trans. mouse genomic locus Trans. human genomic locus	VALKFSHPCEEDHNSYCIN-GACAFHHELKQAL-RCRFTGYTGQRCHEHLTITSYA.... VALKFSHPCEEDHNSYCIN-GACAFHHELKQAL-CR* VALKFSHLCLEEDHNSYCIN-GACAFHHELEKAL-CR*	26 83, 138 84, 139

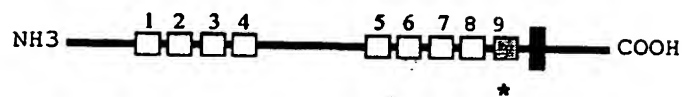
Figure 4 (continued)

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i) TGF-alpha



ii) Epidermal Growth Factor



iii) Notch 1

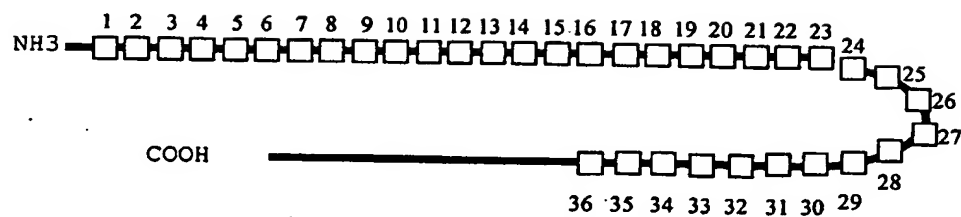


Figure 5A

i) TGF alpha		Sequence ID #
EGF DOMAIN NUMBER	SEQUENCE	
1. EGF_47_82 *	QDDSHLQDQD-HCD-GRNIVQEDRPAGVCHSG--YVGAR--C	72
ii) EPIDERMAL GROWTH FACTOR		
EGF DOMAIN NUMBER	SEQUENCE	Sequence ID #
1. EGF_318_354	CKLR-KGNC--STVGGQDL--QSHLCMAEGYALSRRDRKYC	27
2. EGF_360_395	CAFW-NHCC--PIGGKNTD--GSYCTCPVGMALHPDGKRG	28
3. EGF_401_436	CPRN-VSEC--SHDCVITS--EGRLCRGREGSMLEKDKITC	29
4. EGF_439-476	CSSPDNGGCS--QVCMPLSP--VSTEDCEFPQYDQDDEKSC	30
5. EGF_745_780	CDYQFNGGCT--EHTCKGGL--GTAWGSCREGEMKASDGKTC	31
6. EGF_835_868	CRPV--COS-LMARGTSEC--EDATCQCKKG--FAGEGKTC	32
7. EGF_874_910	CEMG-VPVQPPASSKGINTE--CGAVCRGSEG--YQCDGPHC	33
8. EGF_916_951	EQLC-VHSEGLNAS--GINTD--CGYTCMCAGR--LSEPGKTC	34
9. EGF_976_1012 *	QELSHDGLCL-HDGVCMYALDKKACN--CVVG--YIGER--C	35
iii) Notchl		
EGF DOMAIN NUMBER	SEQUENCE	Sequence ID #
1. EGF_24_57	CSQ-----PGETCLNGGKCEAANGTE-----ACVCG-GAFVGPRC	36
2. EGF_63_98	CHS-----TPCKNACTCH-VWDRRGVADYACSCA--EGESGPLE	37
3. EGF_106_138	CLT-----NPCRNGGTCD-TILTIT--FLYKCRCP--PGWSGKSC	38
4. EGF_144_175	CAS-----NPGANGGOC--TP--FEASYTQHCP--PSEHGPTC	39
5. EGF_182_215	CCQ-----KPLCRHGGTCHNEVGSYS--TRGVCR--ATHTGPNC	40
6. EGF_222_254	CSRSP-----CONGGTCRETCDV--THECACL--PGFTGQNC	41
7. EGF_261_292	CEGNN-----CKNGGACV-DGVN--LYNCPCP--PEWTGOYC	42
8. EGF_299_332	EOL-----MPNACONGGTCNTHGGY--NCVCV--NCWTGSDC	43
9. EGF_339_370	CAS-----AAGTGCATCH-DRVA--SYXCECP--HGRTELLC	44
10. EGF_376_409	CHS-----NPGNEGSNCD-TNPM--NGKATCTCP--SGYTGPAC	45
11. EGF_416_449	CSL-----CANPCEHAGKCINTLGSE-----ECQCL-QGYTGPRC	46
12. EGF_456_487	CVS-----NPGONDATOL-DOIG--EFGCMCM--PGYEGVHC	47
13. EGF_494_525	CAS-----SPCLHNGROL-DGIN--EFGCECP--PGFTGHLG	48
14. EGF_532_563	CAS-----TPCKNCAKCL-DGPN--LYTCEVCT--EGYTGTTC	49
15. EGF_570_600	CDPDP-----CHMG-SCK-DGVA--TETGLCR--PGYTGHHC	50
16. EGF_607_638	SSS-----QPCRILRGTCQ-DPDN--AYLCECL-KGTTCPNC	51
17. EGF_645_675	CAS-----SEC-DSGTCL-DGID--GYECACE--PGYTGSMC	52
18. EGF_682_713	CAC-----NPGHNGGTC--ED-GINGETCRCP--EGYHDETC	53
19. EGF_720_750	CNS-----NPGVHGARD--SIN--GYKCDGD--PGWSGTNC	54
20. EGF_757_788	QPS-----NPGVNGGTCQ-D-MTS--GAVCTCR--EGESGPNC	55
21. EGF_795_826	CAS-----NPGANKGTC--IDD--VAGYKCNCL--LPTTGATC	56
22. EGF_833_867	CAP-----SPCRNGGECR-OSED--YES--ESCVGPTAGAKGQTC	57
23. EGF_874_905	CVL-----SPCRHGASCO-NTHG--XYKCHCO--ACYSGRNG	58
24. EGF_912_943	CRPNP-----CHNGGSCT-DGIN--TAFCDCL--PGFRGTFC	59
25. EGF_950_981	CAS--DP-----GRNGANCT-DCVD--SYTCTCP--ACYSGLHC	60
26. EGF_988_1019	CHSS-----CFNGGTCV-DGIN--SFTCLCP--PGFTGSYC	61
27. EGF_1026_1057	QDS-----RPFOLLGGTCQ-DG--RGIHRCCTP--QCYTGPNC	62
28. EGF_1064_1095	QDS-----SPCKNGGCKW-OT--HTQYRCECP--SGWTGELYC	63
29. EGF_1102_1143	CEVPAQRCQVDVARLCQHGGLCV-DAGN--THHCRCQ--AGYTGSYC	64
30. EGF_1150_1181	QSR-----SECONGATCT-DYLC--GYSCCV--AGYHGVNC	65
31. EGF_1188_1219	CLS-----HPCONCCTOL-DLPN--TYKCSOP--RGTGVHC	66
32. EGF_1226_1265	ENPEVDPVRS--PKCLNNGTCV-DOVG--GYSCTCP--PGYVGRG	67
33. EGF_1272_1305	CLS-----NPGDARTON--CVOR--VNDHCECP--AGHTERRC	68
34. EGF_1312_1346	CKG-----KPGKNGGTCQ-VASN--TARGETICKOP--AGFEGATC	69
35. EGF_1353_1384	Q-----GSLRCLNGGTCISGPRSP--TCECP--GPTGPEG	70
36. EGF_1392_1426	CLN-----GGNPEYNQGTCEPTSESPF--YRCLCP--AKFNGELC	71

Figure 5B

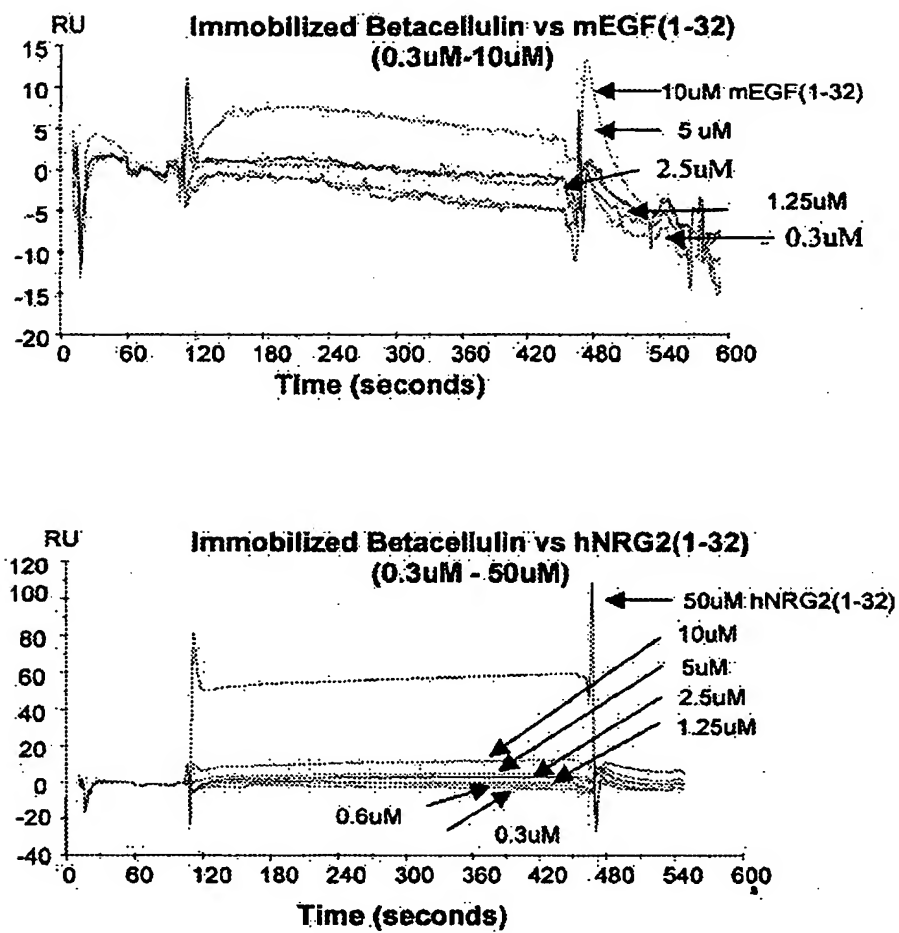


Figure 6